IOWA DEPARTMENT OF NATURAL RESOURCES

## CONSTRUCTION DOCUMENTS FOR <br> BIG CREEK STATE PARK PARKING LOT PAVING

## POLK COUNTY, IOWA

## PROJECT \# 22-02-77-01



AUTHORIZATION TO BID










ALL SIGN POST SHALL CONSIST OF SQUARE POSTS BOLTED TO AN EMBEDDED SQUARE
ANCHOR BASE. ANCHOR DEPTH IS MINLUM 3 INCHES TUBU ANCHOR BASE. ANCHOR DEPTHISMINMUM SO NCHES. TUBULAR SEEEL POSTS IN. SQUARE, AND SHALL FIT SNUGLY OVER THE $2-1 / 4$ IN. POST SECTION.
all square tubular steel posts and stee anchor bases shall be formed AROM 12 GAUGE GALVANIZED STEEL. ALL SIDES OF THE TUBES SHALL HAVE $7 / 16$ IN PRIE
DIE PNCHED CIRCULAR HOLES OR PERFORATED KNOCK-OUTS, AT 1 IN. CENTERS
ALONG THEI RNTIR LINGTH.





$\frac{\text { NOTES }}{1.12 \times 11^{\prime \prime}}$ EMPLOYEE PARKING ONLY SHALL BE MOUNTED $7^{\prime}$ FROM FINISH GRADE TO BOTTOM EDGE OF SIGN FACE. MOUNTING HEIGHT MAY BE REDUCED TO 5'IF PLACED IN A LANDSCAPE AREA IN
WHICH PEDESTRIANS ARE NOT EXPECTED TO USE.
2. BOLLARD MAY BE OMITTEDIFINSTALLED IN LANDSCAPE AREAS. WHEN INSTALLED IN LANDSCAPE
AREAS, MOUNTING POST SHALL BE DRIVEN A MINMUM OF 3 'BELOW FIISHED GRADE. ALTERNATE AREAS, MOUNTING POST SHALL BE DRIVEN A MINIMUM OF 3 ' BELOW FINSHED GRADE. ALTERN
MOUTING POSTS MUST BE APPROVED BY THE FIELD INSPECTOR PRIOR TO CONSTRUCTION. 3. ALL SIGNAGE SHALL BE ENGINEER GRADE . O8O ALUMINUM REFLECTIVE SIGN MEETING THE 3. ALLIGNAGE SHALLBE ENGINEER GRADE
REQUIREMENTS OF THE MUTCD AND ADAAG



TOP EDGE OF THE PAVEMENT MARKING SHALL BE 13' FROM THE TOP OF THE PARKING SPACE.


HANDICAP PARKING
PAVEMENT MARKING



Stairs consists of one set of four stairs, four sets of seven stairs, concrete pads between sets, and the culvert crossing. Each stair set is to have raliings on

Concrete pads shall be 5 " thick, placed on 6 " of compacted Granular Subbase.
Culvert crossing consists of a single $8^{\prime}$ long $18^{\prime \prime}$ diameter RCP pipe section set
Culvert crossing consists of a single 8 long 18 " diameter RCP pipe section set
on existing grade. Concrete headwalls are to be constructed on the upstream on existing grade. Concrete headwalls are to be constructed on the upstream
and downstream sides of the sidewalk, with minimum wall thicknesses of 8 ". and downstream sides of the sidewalk, with minimum wall thicknesses of $8^{\prime \prime}$.
Alternatively, the sidewalk and headwalls may be poured as a monolithic
unit.
All work defined on this sheet is incidental to the Remove and Replace Stairs
line item.

| ESTIMATED PROJECT QUANTITIES |  |  |  |
| :---: | :---: | :---: | :---: |
| ITEM NO. | Item | UNIT | TOTAL |
| 1 | Mobilization | Lump Sum | 1 |
| 2 | Traffic Control | Lump Sum | 1 |
| 3 | Construction Survey | Lump Sum | 1 |
| 4 | Site Restoration | Lump Sum | 1 |
| 5 | $15^{\text {" Dia. RCP }}$ | LF | 180 |
| 6 | 15 " Dia. RCP Apron | Each | 1 |
| 7 | $18^{\prime \prime}$ Dia. RCP | LF | 247 |
| 8 | 18" Dia. RCP Apron | Each | 7 |
| 9 | $24^{\text {" Dia. RCP }}$ | LF | 81 |
| 10 | 24" Dia. RCP Apron | Each | 4 |
| 11 | 5 " PCC | SY | 181 |
| 12 | $6^{\prime \prime}$ Curb | LF | 2830 |
| 13 | 6 " PCC | SY | 41418 |
| 14 | Class A Crushed Stone | Tons | 45 |
| 15 | Concrete Pipe Disposal | Lump Sum | 1 |
| 16 | Curb Cuts | Each | 51 |
| 17 | Demolish Kiosk and Light Pole | Lump Sum | 1 |
| 18 | Electrical Connection - East Boat Ramp | Lump Sum | 1 |
| 19 | Excavation, Class 10, Waste | CY | 8331 |
| 20 | Light Pole with Base | Each | 3 |
| 21 | Parking Bumper | Each | 4 |
| 22 | Pavement Markings - ADA Parking | Each | 13 |
| 23 | Pavement Removal | SY | 33886 |
| 24 | Pavement Striping | LF | 16659 |
| 25 | Raise Stormwater Intakes | Each | 3 |
| 26 | Removable Bollard | Each | 1 |
| 27 | Remove and Dispose of Chain Link Fence | LF | 621 |
| 28 | Remove and Dispose of Light Pole | Each | 4 |
| 29 | Remove and Replace Stairs | Lump Sum | 1 |
| 30 | Seeding, Native Prairie | Acres | 1.1 |
| 31 | Sign - ADA Parking | Each | 10 |
| 32 | Sign - Authorized Vehicles | Each | 2 |
| 33 | Sign - Begin One Way | Each | 2 |
| 34 | Sign-Employee Parking | Each | 3 |
| 35 | Sign - Loading Zone | Each | 3 |
| 36 | Sign - No Parking | Each | 10 |
| 37 | Sign - One Way | Each | 1 |
| 38 | Sign - Rigging Lane | Each | 21 |
| 39 | Solar Light Pole with Base | Each | 1 |
| 40 | Special Backfill | Tons | 14104 |
| 41 | SW-501 Single Grate Intake | Each | 2 |
| 42 | SW-512 Circular Area Intake | Each | 1 |
| 43 | SW-513 Open Sided Area Intake | Each | 1 |
| 44 | Trench Drain | LF | 44 |
| 45 | Truncated Dome Panel | Each | 2 |

CONSTRUCTION SCHEDULE CONSTRAINTS
During the recreation season (May 26 through September 6), work is to start at the East Boat Ramp ollowed by the West Boat Ramp, and end at the Main Boat Ramp. Only one of the three larger
ooat ramps (Main Boat Ramp, East Boat Ramp, and West Boat Ramp) may be closed at any given time. There are no work or sequencing restrictions for work outside of the recreation season. Work may occur at the William's Drive Boat Ramp at any time during the contract period.

ESTIMATE REFERENCE INFORMATION

| IEM |  |
| :--- | :--- |
| NO. | DESCRPTION |



${ }^{4}$ A. All disturbed area, unless othenwise designated, shall have the seed bed prepared, seeded, fertilized, and mulched.
A. Backill and compaction are incidental to this line item.
A. Backill and compaccion are incidental to this line tem,
A. Backill ond compaction are incidental to this line item.

D. Controi joints shanil be incicicenta t tot shiscing itemult to the pavement width (square panels).

13

 E. Center steel shall conssists of one \#4 bar, $30^{\circ}$ long, place
A. Curb cuts shall be 3 feet long, and occur 10 feet O.C.

18 A. This ine item includes all necessary labor and material to abandon the xisting electrical conne fion betwen the electrical shutoff and the



A. Minimum dimensions shall be 6 fieet by 9 inches by $41 / 2$ inches high, with chamfered edges

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xied into the pavement
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Sawcutling of ariacoent pavement to make a clean edge for abutling new pavement shall be incidental



## A. Pavement stiting shall be yellow

A. This item includes sall necessary labor and materials to raise the stormwater intake grate to the design finish grade of the pavement.
B. New intake grates and trames shall be used.
A. The bollard shall be the 4x $\mathrm{A} \times 3$ " " Dowder coated yellow removable bollard as manufactureed by Post Guard/Encore Commercial Products,
inc. of Formington
A. Only hydraulic seeding and mulching is allowed for this line item.
A. Post material is iscidental to this line item.
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A. Rock base extends 2 feet beyond edge of roadway and parking lof pavement.
$42 \begin{aligned} & \text { A. Use the tee connection for this line item. } \\ & \text { B. Type } 3 \text { costing. }\end{aligned}$
A. The Open Sided Area Intake shall have openings on all four sides of the structure.
B. When used das an outlet structure, a $\mathbf{a}$ 24 hole shal be constructed on the downstream side of the structure at grade leve
A. Minimum trench drain width is $12^{\prime \prime}$

45 A. Tuncated domes panel shall be constructed of cast iron, be 24 inches long, and the full width of the concrete.

## GENERAL NOTE

## Verify actual locations and elevations with DNR Engineer

All work shall conform to and be performed in accordance with all applicable codes and ordinances.

The contractor shall visit the site and inspect the project area and thoroughly familiarize hemselves with the actual job conditions prior to bidding and the start of work. Failure to to the plans, specification, special provisions and contract. The contractor shall verify, at the site, all dimensions and conditions shown on the plans and
shall notify the DNR Engineer of any discrepancies, omissions, and/or conflicts prior to proceeding with the work.

It shall be the contractor's responsibility to provide waste areas or disposal sites for excess material (excavated material or broken concrete) which is not desirable to be incorporated into the work involved on this project. No payment for overhaul will be allowed for materia hauled to these sites. No materia shall De placed within the right-of-way, unless specifically stated in the plans or approved by the DNR Engineer.

The contractor shall not disturb desirable grass areas and desirable trees outside th onstruction limits. The contractor will not be permitted to park or service vehicles and quipment or use these areas for storage of materials. Storage, parking and service area will be subject to the approval of the DNR Engineer.

Where utilities and fixtures are shown as Existing on the plans or encountered within the construction area, it shall be the responsibility of the contractor to notify the DNR Engineer of those utilities prior to the beginning of any construction. The contractor shall be afforded access to these facilities for necessary modification of services. Underground facilities, structures and utilities have been plotted from available surveys and records and therefore existence of which is presently not known or shown. It is the contractor's responsibility, to determine their existence and exact location and to avoid damage thereto. No claims for additional compensation will be allowed to the contractor for any interference or delay caused by such work.

The contractor shall shape graded area to maintain surface drainage. All elevations are to inish grade.
The contractor is expected to have materials, equipment, and labor available on a daily basis o install and maintain erosion control features on the project. This may involve seeding, silt fince, rock ditch checks, silt basins or silt dikes.



Sawcut existing pavement


Remove existing HMA pavement core out existing base material
Place 6" PCC over 6" Special Backfill Pace 6 PCC over b" Special Backfill Excavation, Class 10 Waste - 842 CY Special Backfill - 1,620 Tons







